

Abstract

This invention is a inexpensive light weight portable compound bow press that is safer and easier to use. A bow press with a greater mechanical advantage, to be used in the complete maintenance of high powered compound bows having either two piece limbs or one piece limbs. This invention consists of two extending members. Each extending member connects to the outer end of one of the bows limbs, and extend over and away from the outer ends of the bow's first and second limbs. The first end of a liner adjusting apparatus is connected to the first extending member at a central position near the outer edge of the first extending member. The second end of the adjusting apparatus is connected to the second extending member at a central position near the outer edge of the second extending member. This arrangement positions the adjusting apparatus outside and away from the compound bow, allowing for safer and easier use. The adjusting apparatus allows the archer to exert an inward force on the extending members. The extending members apply force to the outer ends of the bow's limbs, thus flexing the entire length of the limb and applying a reduced stress on the bow's riser and limbs. The mechanical advantage provided by the extending members reduces the stress on the adjusting apparatus allowing for the maintenance of high powered bows with lighter weight components. The bow's limbs are flexed inward and locked against their flex action. This way, the bow's string and cables relax and can be removed. The adjusting apparatus can then be reversed until all flex in the bow's limbs is eliminated. The bow press can be removed and the bow can then be disassembled. Assembly of the bow requires reversing this procedure.